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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

February, 1978

STATE DOCUMENTS COLLECTION

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1. Highlights:

Board of Health meeting on the Colstrip Units 3 & 4 appeal was heard.

Applicants are being interviewed for the position now vacant in the Billings office for engineer.

2. Ambient Air Quality Network:

a. Standards Exceeded

SO ₂ violations	Microwave	East Station	Broudy
State 1-hour	2	1	4
State 24-hour	0	0	0
Federal 24-hour	0	0	0
High 1-hour	.32	.28	.49

SO ₂ violations	Hiway Junct.	P.O.	Mill Creek	C-Hill
# of excur. over .25	34	3	4	1
Highest reading, 1-hr average (ppm)	.30	0.30	0.36	0.37
Highest 24-hour average (ppm)	.031	0.09	0.06	0.05

CO Alpine West

excur. over 9.0 ppm	1
Highest 1-hr. avg. (ppm)	11.5
Highest 24-hr avg. (ppm)	3.0

SO₂ violations from company Stations near Anaconda Smelter:

State 1-hour	39
State 24-hour	11
Federal 24-hour	0
Federal 3-hour	1

b. Air Stagnation Advisories:

None in February

c. Laboratory Status:

Total Samples for Month 98
Total Determinations for Month 594

d. Other

Poplar River vegetation analyses were completed and the report written.

3. Permits and Tax Credits:

a. Construction Permits - Applied For

Guernesey Stone Co., Park Co., rock crushing equipment
The Anaconda Company, Anaconda, double contact sulfuric acid plant

Approved:

Shell Oil Co., Richland Co., refrigeration gas processing plant
Hilde Construction Co., Toole Co., gravel crushing plant
Hilde Construction Co., Glacier Co., gravel crushing plant
Pfizer, Inc., Dillon, Jet stream classifier, baghouse construction, \$19,100
Guernesey Stone Co., Park Co., rock crushing equipment
Exxon Company, East of Billings, system improvement project

c. Tax Credits

Anaconda Aluminum, Columbia Falls, Sumitomo Project, under review
Louisiana Pacific, Missoula, several baghouses and multiclones, under review
Anaconda Company, Anaconda, acid plant expansion, under review

4. Variance Status:

a. Current

Anaconda Aluminum, Columbia Falls, F⁻ and particulate, expires 6/30/78
Anaconda Company, SO₂ variance, expires 6/30/78
Anaconda Company, visible emission and process weight rules for foundry,
expires 6/30/78

b. New

ASARCO, Inc., East Helena, 90-day variance in acid plant shakedown period

5. Enforcement Actions:

a. Citations:

Wickes Corp., Townsend, 78020-BR-1, tepee burner in violation of rule 16-2.14(1)-
S14030 (wood waste burner)

5. Enforcement Actions - Cont.

Montana Pole Co., Butte, 780209-BR-1, tepee burner in violation of rule 16-2.14(1)-S14030 (wood waste burner)

Burlington Northern, Missoula, 780209-DH-1, open burning of railroad ties between Boyd and Roberts in violation of rule 16-2.14(1)-S1490 (open burning restrictions)

Brand S Lumber, Livingston, 780210-DH-1, tepee burner in violation of rule 16-2.14(1)-S14030 (wood waste burner)

Brand S Lumber, Livingston, 780202-BR-2, tepee burner in violation of rule 16-2.14-S14030, (wood waste burners)

b. Notice of Violations - None

c. Order for Corrective Action

Brand S Lumber, Livingston, Stipulation to 1/26/78 Order, final compliance date of August 1, 1978

Draft Order on Evans Products sander and veneer dryer prepared

d. Court Actions - None

6. Tepee Burner and Open Burning:

Open Burning Permits Issued:

Kalispell Office	5	Cascade County	3
Sanders County	3	Yellowstone County	6
Lake County	6	Rest of State	161
Missoula County	14	Total	198

Tepee Burners:

No. at Start	41
New starts	0
Shutdowns	0
No. at end	41

7. Source Tests Performed:

a. Agency Source Tests

None in February

b. Non-agency Tests:

Hoerner-Waldorf, Missoula, 21 particulate tests on recovery boilers, lime kilns, smelt tanks, hogged fuel boiler

8. Field Investigations:

Montana Pole, Butte, smoke from tepee burner, investigation, citation issued
Gilman Construction, Anaconda, open burning, started by accident, fire put out
Montana Welding Supply, Butte, burning trash, investigation
Brand S Lumber, Livingston, tepee burner, visible emissions
Burkland Studs, Livingston, tepee burner, investigation
Wickes Forest Industries, Townsend, tepee burner, investigation
Brand S Lumber, Livingston, tepee burner, investigation
Willow Creek Lumber, Livingston, tepee burner, investigation
Brand S Lumber, Boulder, mill waste pile, investigation
Clampion International, U. S. Plywood, Silver City, inspection, in compliance
Plum Creek Plywood #3, Columbia Falls, tepee burner, documentation, in compliance
Plum Creek Plywood #3, Columbia Falls, documentation, in compliance
Plum Creek Lumber Mill #1, Columbia Falls, conference regarding start-up time
Stoltze Land & Lumber, Columbia Falls, conference regarding tepee burner operation
Coram Lumber & Building Supply, Coram, conference, tepee burner not operating
Plum Creek MDF plant, Columbia Falls, conference regarding aborting baghouses -
fire danger, replacement equipment has been ordered

9. Complaints:

Brand S Lumber, Livingston, inspection, Citation issued (5 complaints)
JY Development, Townsend, open burning, will cease
Great Western Sugar, Billings, making snow black, investigation (2 complaints)
Milligan's IGA, Absarokee, open burning, referred to county sanitarian
Louisiana Pacific, Deer Lodge, heavy smoke, inspection
Stan Edwardson, SKVFD, odor complaints at Kalispell STP, inspection

10. Data Processing Services:

- a. Ambient Data Summary - See attached for month of January
- b. Emission Inventory Status: No significant activities
- c. Prevention of Significant Deterioration: No significant activities
- d. Modeling: No significant activities

11. Environmental Impact Statements:

- a. Agency Impact Determinations

PER filled out on Pfizer Talc baghouse construction permit application

- b. Other Agency EIS' Reviewed:

East Shore Flathead Lake Planning Unit, U.S. Forest Service

12. Status of Studies, Contracts and Reports

MAPS Emission Inventory Update and Improvement - contract being negotiated with Midwest Research Institute
MAPS Historical Emission Inventory - progressing according to schedule, contract expires June 30, 1979
ASARCO-Troy, background air quality - 82% complete, schedule revised, new due date unknown, draft EIS expected out May 1
MAPS - air monitoring operator hired for Missoula, contract expires June 30, 1979
Poplar River - interim report issued February 17. Final report due April 1.
Rockwell International - contract to evaluate Anaconda's in-stack instruments to be updated.
MAPS - contract with Montana Foundation for Medical Care to do clinical record reviews and home interviews.
Butte AQMA - PEDCo will start update and analysis when new revised workplan is drawn up.
Missoula AQMA - local government attempting to get transportation planner.

13. Schools and Training:

Workshop on "Communications and the Public" attended February 8-10, 1978.

14. Public Hearings and Meetings:

a. Public Hearings Held

Special Board of Health hearing was held on Montana Power Company appeal of permit conditions for Colstrip Units 3 & 4.

Public meeting held by EPA in Billings on proposal to issue PSD permit to Montana Power Company.

b. Meetings Attended:

Lt. Governor, Helena, Poplar River Study
Smoke Management Plan, Dept. of Natural Resources and U.S. Forest Service
EPA, Denver, Poplar River power plants
State Airshed group, Missoula, smoke management plan
Hoerner-Waldorf, ERT, Missoula, meteorology study
Steering Committee, Polson, Upper Flathead River Basin Study
Legal Division, non-attainment designations
Montana Power, Helena, Colstrip Monitoring
Park County Sanitarian, Livingston, Brand S Lumber, visible emissions
Brand S Lumber, Helena, compliance schedule
Historical Research Associates, Helena, MAPS contract
Emission Inventory Advisory Committee, Helena, contract for MAPS
Science Applications, Helena, discuss EIS requirements of Northern Tier Pipeline
State Lands, Westco Resources, Helena, to discuss baseline ambient air quality study for Montco mine near Birney
R. L. Burns Uranium Corp., Helena, discuss solution mining permit requirements
Anaconda Company, Helena, Emergency Episode Plan
Montana Foundation for Medical Care, Helena, mortality study for MAPS
Planning Board, Butte, regarding MAPS
Highway Impact Evaluation Group, Helena

14. Public Hearings and Meetings, Cont.

c. Intra-Staff Meetings

MAPS/Laboratory Meeting

AQB Staff Meetings

Staff and contract employees regarding ambient rule revision

AQB Staff regarding SIP revision

15. Public Information Requests:

Rules 14

Clean Air Act 9

Other 10

Interviews - two newspapers

16. N.A.

17. Other:

Met with Flathead County Commissioners to review proposed open burning program for this March and April. Final details are yet to be completed.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

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January 1978

Pollutants: Miscellaneous Indicators

Units:

AQCH	AREA	HIGH READING			ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
144	Fluoride Papers Uchitons Mt. Box Flathead Co. Anaconda South Flathead Co. Glacier Park #1 Glac. Nat. Park Glacier Park #2 Glac. Nat. Park Glacier Park #9 Glac. Nat. Park	- Mg/sq. cm./30 days	***	***	***	***	
144	Fluoride Plates Anaconda South Flathead Co. Trailer - NAAC Flathead Co. Glacier Park #1 Glac. Nat. Park Glacier Park #2 Glac. Nat. Park Glacier Park #9 Glac. Nat. Park	- Mg/sq. cm./30 days	***	***	***	***	

Pollutants: Misc. Bubbler Data

Units: parts per million

AQCH	AREA	HIGH READING			ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
140	Sulfur Dioxide Lockwood School Billings	---	---	---	---	---	
143	Scobey Daniels Co. Fort Peck McCone County Lame Deer Rosebud County BN Site Colstrip	---	---	---	---	---	
143	Nitrogen Dioxide Scobey Daniels Co. Fort Peck McCone Co. Lame Deer Rosebud Co. BN Site Colstrip	---	---	---	---	---	

Pollutants: Miscellaneous Indicators

Units:

AQCH	AREA	HIGH READING			ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
141	Dustfall - Tons/sq. mi. Mountain States Great Falls Fire Station #1 Great Falls Fairgrounds Great Falls	---	---	---	---	---	
140	Sulfation Rate - mg O ₃ /100 sq. cm. 3/8 Mi. NE Coop Billings East of Laurel Billings Hi-Ball Trucking Billings	3.340	3.340	4.350	3.340	1	
141	Stock Car Track Great Falls Phillips Ref. #1 Great Falls Phillips Ref. #2 Great Falls	2.800	2.800	3.190	2.800	1	
142	Microwave East Helena 21st & Pacific East Helena East Stock Sta. East Helena Browdy Ranch East Helena	0.400	0.400	0.600	0.400	1	
		0.400	0.400	1.170	0.400	1	
		0.590	0.590	1.060	0.590	1	
		0.460	0.460	0.480	0.460	1	

Pollutants: Total Suspended Particulate

Units: ug/cubic meter

AQCH	AREA	HIGH READING			ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data	
140	Morton-Decker Big Horn Co. Warren Ranch Big Horn Co. Lockwood School Billings	209	209	209	83.6	1	exc. Fed. Sec. St. exc. MT. Pri. St.
	KGHL Billings City Hall Billings Grand Ave. Sch. Billings Laurel Jr. High Laurel	28	28	108	15.0	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	90	90	166	57.8	1	
141	Billings City Hall Billings Grand Ave. Sch. Billings Laurel Jr. High Laurel	85	85	163	28.8	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	90	90	165	54.6	1	
142	HiWay Junction Anaconda McKinley Res. Granite Co. Greeley School Butte Gilman Const. Butte	22	22	155	13.6	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	68	68	150	44.4	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	21	21	225	18.4	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	28	28	177	20.1	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	51	51	411	34.4	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	65	65	161	38.0	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	58	58	217	34.0	1	
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	173	173	233	81.2	1	exc. Fed. Sec. St.
	Billings Hospital Roof Great Falls Fire Sta. #1 Great Falls 10th Ave. South Great Falls	116	116	297	60.0	1	

***Data unavailable at time of report.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

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Pollutant: Total Suspended Particulate				Units: ug/cubic meter			
AREA		HIGH READING		ARITHMETIC AVER.			
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days of Data	Comments
142	Adkins Residence	47	47	125	30.0	1	
	WALKERVILLE						
	Richer Res.	53	53	53	73.2	1	
	Sill, Bow Co.						
	Tierney Res.	68	68	89	32.3	1	
	Sill, Bow Co.						
	Microwave	52	52	103	32.5	1	
	Jefferson Co.						
	212 E. Pacific	130	130	192	130.0	1	
	Lewis & Cl. Co.						
	Kober Res.	59	59	309	33.4	1	
	Three Forks						
143	Traphagen Hall	9	9	9	9.0	1	
	BOZEMAN						
	Littlefield Hill	16	16	45	10.8	1	
	Miles City						
	Glendive						
	Dawson Co.						
	Lane Deer	13	13	243	7.3	1	
	Rosebud Co.						
	Fort Peck	7	7	89	6.3	1	
	McCone Co.						
	Broadus	18	18	275	7.2	1	
	Powder Riv. Co.						
BN Site	Colstrip						
	Border Site						
	Scobey	22	22	107	17.4	1	

**No samples run in January

Pollutant: Total Suspended Particulate				Units: ug/cubic meter			
AREA		HIGH READING		ARITHMETIC AVER.			
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days of Data	Comments
144	Anders Res.	78	78	467	47.2	1	
	Col. Falls						
	Courthouse	175	175	295	93.7	1	exc. Fed. Sec. St.
	Missoula						
	J B Field	120	120	180	47.5	1	
	Missoula Co.						
	Katisspell	54	54	226	31.2	1	
	Flatchhead Co.						
	Troy-Brown	41	41	171	32.4	1	
	Lincoln Co.						
	Troy-Sampson	17	17	171	9.8	1	
	Lincoln Co.						
	Hoerner W. #1	131	131	255	47.0	1	
	Missoula Co.						
Hoerner W. #2	135	135	255	48.3	1		
Missoula Co.							
Hoerner W. #3	86	86	86	31.7	1		
Missoula Co.							
Courthouse Lawn	157	157	279	88.4	1	exc. Fed. Sec. St.	
Missoula							
Lion's Park	327	327	335	104.2	1	exc. Fed. Pri. St.	
Missoula						exc. Fed. Sec. St.	
Brown Res.							
Libby	70	70	196	59.0	1		

Pollutant: Misc. Continuous Data			Units: parts per million				
AREA		HIGH READING		ARITHMETIC AVER.			
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	Comments
140	Carbon Monoxide 27th & Montana Billings	15.90	15.90	19.20	2.967	1	
141	10th Ave. So. Great Falls	16.30	16.30	23.10	2.431	1	1 exc.Nat.8-hr.
142	Alpine West Butte	12.50	12.50	14.00	1.710	1	
144	Malfunction Jct. Missoula	28.00	28.00	31.60	8.080	1	25 exc.Nat.8-hr.
	Lion's Park Missoula	24.00	24.00	24.00	8.174	1	22 exc.Nat.8-hr.
140	Hydrocarbons 27th & Montana Billings	8.00	8.00	26.40	4.492	1	
144	Lion's Park Missoula	4.25	4.25	7.62	2.145	1	
140	Nitrogen Dioxide 27th & Montana Billings	0.10	0.10	0.18	0.039	1	
142	Alpine West Butte						
144	Lion's Park Missoula	0.05	0.06	0.09	0.023	1	

***Data unavailable at time of report

Pollutant: Wisc. Continuous Data			Units: parts per million				
AREA		HIGH READING		ARITHMETIC AVER.			
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days of Data	Comments
140	Ozone	0.04	0.04	0.08	0.014	1	
144	27th & Montana Billings	0.03	0.03	0.03	0.006	1	
	Lion's Park Missoula						
140	Sulfur Dioxide	0.17	0.17	0.20	0.002	1	
	27th & Montana Billings						
	Laurel Farm Billings	0.66	0.66	0.66	0.123	1	2 exc. Fed. 24-hr.
142	East Stack East Helena	0.34	0.34	0.66	0.009	1	1 exc. MT. 1-hr. st.
	Microwave East Helena	0.03	0.30	1.40	0.021	1	1 exc. MT. 1-hr. st.
	Broudy Ranch East Helena	0.80	0.80	0.88	0.028	1	0 exc. MT. 24-hr.
	C-Hill Anaconda	2.27	2.27	3.51	0.025	1	10 exc. MT. 1-hr.
	Hi-Way Jct. Anaconda	1.53	1.53	2.00	0.090	1	0 exc. Fed. 24-hr.
	Post Office Anaconda	0.40	0.40	1.05	0.021	1	24 exc. Fed. 3-hr.
	Hill Creek Anaconda	1.08	1.08	1.68	0.015	1	1 exc. Fed. 24-hr.
							1 exc. Fed. 3-hr.

